



DIN Signal har-bus 64S female connector

RoHS compliant

General information

Design	according to IEC 61076-4-113	type: har-bus64S female with switching elements
No. of contacts	max. 160	
Contact spacing	2,54mm	
Test voltage	1000V	
Contact resistance	max. 20mOhm for rows a, b, c / max. 30mOhm for rows d, z / max. 60mOhm for switching elements	
Insulation resistance	min. 10 ¹² Ohm	
Working current	1A at 70°C (see derating diagram)	
Temperature range	-40°C ... +105°C (due to limitations of PCB material)	
Termination technology	press-in	

Clearance & creepage	between 2 rows	minimum distance	rows a, b, c	rows d, z	switches
		clearance	1,2mm	1,2mm	0,5mm
	between 2 contacts in a row	creepage	1,2mm	1,2mm	0,7mm
		clearance	1,2mm	1,0mm	0,5mm
		creepage	1,2mm	1,0mm	0,7mm

Insertion and withdrawal force	max. 180N
PCB thickness	min. 1,6mm
Mating cycles	PL 2 acc. to IEC 61076-4-113 250 mating cycles
UL file	E102079
RoHS - compliant	Yes
Leadfree	Yes

Insulator material

Material	LCP (Liquid Cristal Polymer)
Colour	nature (black for cover on switching elements)
UL classification	UL 94-V0
Material group acc. to IEC 60664-1	IIIa (175 ≤ CTI < 400)

Contact material

Contact material	Copper alloy
Plating termination zone	Ni
Plating contact zone	Au over Ni

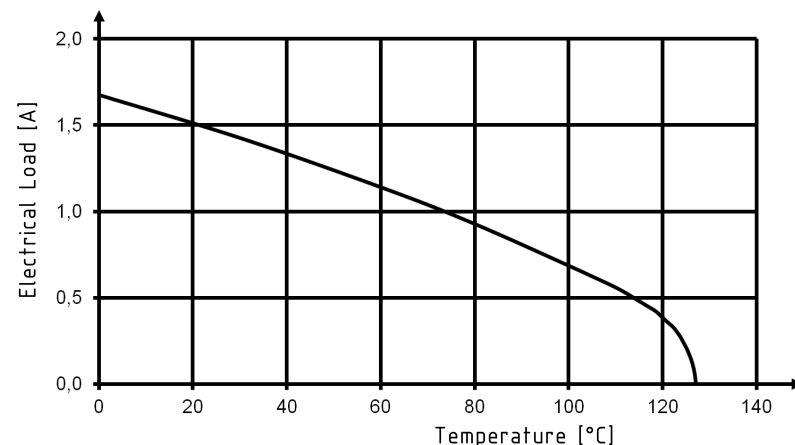
Derating diagram acc. to IEC 60512-5 (Current carrying capacity)

The current carrying capacity is limited by maximum temperature of materials for inserts and contacts including terminals.

The current capacity curve is valid for continuous, non interrupted current loaded contacts of connectors when simultaneous power on all contacts is given, without exceeding the maximum temperature.

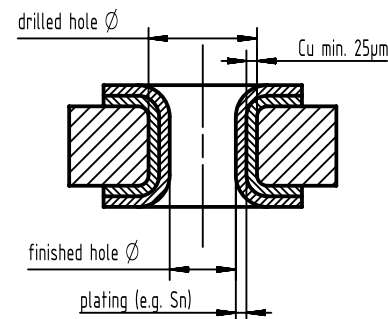
Control and test procedures according to DIN IEC 60512-5

With selective loading higher currents can be transmitted. The requirements according to VITA 1.7 are fulfilled.



Recommended configuration of plated through holes for press-in termination

In addition to the hot-air-level (HAL), other PCB surfaces are getting more important. Due to their different properties - such as mechanical strength and coefficient of friction - we recommend the following configuration of PCB through holes.





Tin plated PCB (HAL) acc. to EN 60352-5	Drilled hole Ø	1,15±0,025 mm
	Sn	max. 15 µm
	plated hole Ø	0,94 - 1,09 mm
Chemical tin plated PCB	Drilled hole Ø	1,15±0,025 mm
	Sn	min. 0,8µm
	plated hole Ø	1,00 - 1,10 mm
Gold /Nickel plated PCB	Drilled hole Ø	1,15±0,025 mm
	Ni	3 - 7 µm
	Au	0,05 - 0,12 µm
	plated hole Ø	1,00 - 1,10 mm
Silver plated PCB	Drilled hole Ø	1,15±0,025 mm
	Ag	0,1 - 0,3 µm
	plated hole Ø	1,00 - 1,10 mm
Copper plated PCB (OSP)	Drilled hole Ø	1,15±0,025 mm
	plated hole Ø	1,00 - 1,10 mm

Assembly instructions

It is highly recommended to use HARTING press-in tools to ensure a reliable press-in process. Please refer to the catalogue for tools, machines and further information about the press-in process.

Additional information

The 5-row har-bus@64 connector with switches allows an automatic switching. In the case of an unmated daughter card the connector bridges the signals at positions a21-22, b4-5, b6-7, b8-9 and b10-11. Switching elements open automatically when the daughter card is mated, so that the daughter card accepts the ongoing signal daisy-chain.

		All Dimensions in mm Original Size DIN A3		Scale 1:1	Free size tol.	Ref. Sub. DS 02032100101 / EC01482 / 21.04.2011		
		All rights reserved Department EC PD - DE		Created by STORCK	Inspected by ELLERMANN	Standardisation HOFFMANN	Date 2017-12-08	State Final Release
HARTING Electronics GmbH D-32339 Espelkamp		Title DIN Signal har-bus 64S female connector with switch						Doc-Key / ECM-Nr. 100557034/UGD/001/B 500000128957
		Type DS	Number 02032100101				Rev. B	Page 1/1

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